

19980809.ba v02\_n161.bam.980809 v02\_n162.bam.980809

>From ???@??? Sun Aug 09 17:03:24 1998  
Message-Id: <199808091300.IAA25213@sco.theporch.com>  
Date: Sun, 9 Aug 1998 08:00:07 CDT  
Subject: BOATANCHORS digest 2161

BOATANCHORS Digest 2161

Topics covered in this issue include:

- 1) Re: Lets see...  
by Steve Rohrer <srohrer@mindspring.com>
- 2) Re: Where it goes...VHF  
by Steve Berg <z931086@corn.cso.niu.edu>
- 3) 75A-4 and the birds  
by "Bill Coleman N2BC" <n2bc@ibm.net>
- 4) RE: Let's see where this goes..  
by Ed Tanton <n4xy@att.net>
- 5) CCA Convention Information  
by "Jay H. Miller" <jmiller@teleteam.net>
- 6) Re: Lets see...  
by gpewitt@execpc.com
- 7) WTB HP-410B ac probe tube  
by Tom Smith <tsmith@hal-pc.org>
- 8) DY82AB7 Filter Choke  
by PLT1032@aol.com
- 9) RE: Let's see where this goes  
by Bill Wilson <billo@internettpport.net>
- 10) Re: Foothill Rx asking prices  
by "Jim Carrington" <jcall@sirius.com>
- 11) RBL ramblings  
by gpewitt@execpc.com
- 12) let see where this goes  
by luc dugas <collins2@globetrotter.net>
- 13) Re: Let's see where this goes..  
by "Jim Zellmer" <zellmer@raccoon.com>
- 14) Dial covers  
by "A.B. Bonds" <ab@vuse.vanderbilt.edu>
- 15) SX-42 gotchas  
by "A.B. Bonds" <ab@vuse.vanderbilt.edu>
- 16) addendum  
by luc dugas <collins2@globetrotter.net>
- 17) Re: Let's see where this goes...  
by "Steve" <scb@mail.internettpport.net>
- 18) CV-591A Operating Characteristics -- Conclusion  
by "Grant Youngman" <nq5t@gte.net>
- 19) RE: Let's see where this goes...

by "David Newkirk" <dpnewkirk@home.com>  
20) First use of co-ax?  
by midshires@cix.co.uk (Andrew Emmerson)  
21) British GEC QU37 Tubes for Sale.....  
by Robert Ross <radiorob@serix.com>

---

Message-ID: <35CCF591.B8EA1558@mindspring.com>  
Date: Sat, 08 Aug 1998 21:04:18 -0400  
From: Steve Rohrer <srohrer@mindspring.com>  
MIME-Version: 1.0  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: Re: Lets see...  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

How about the FRR-24? Three (or is it four) 6 foot racks full of HF receiver... well 3 of them actually.

Steve KA4RSZ

gpewitt@execpc.com wrote:

> Since we're adding new catagories how about:  
>  
>  
> Heaviest: WRR2 or for one piece unit AR88  
>

---

Message-Id: <35CC9F1C.D067D295@corn.cso.niu.edu>  
Date: Sat, 08 Aug 1998 19:55:24 +0100  
From: Steve Berg <z931086@corn.cso.niu.edu>  
Mime-Version: 1.0  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: Re: Where it goes...VHF  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

I agree! The Sixer and Twoer were great. I spent many an evening trying to pull out weak signals on 2 meters with mine. One additional advantage was the wide tuning. If we had internet reflectors back then in the 1960's, there would not have been the now constant whining about calling frequencies. The lunchboxes really sounded nice when the Turner hand microphone was tossed, and replaced with a D104. This might explain the paucity of original mics. Another top performer was the Clegg 99er. Simple to use, and had better receiver performance than

such higher dollar units like the Hammarlund HQ-170 vhf models. I worked a ton of states and some DX with mine. My best 6 meter rig was a Central Electronics 10A exciter and homebrew vfo driving a P&H 6-150 transverter. On the receive side I had a Parks Nuvistor converter and a National HR0-50T1. These get badmouthed a lot for ssb performance, but mine worked fine on that mode, and on cw. I often wonder how much I increased the literacy rate in my home town since most people for a 5 mile radius were not able to watch television very much.

73,

Steve WA9JML

-----  
Message-ID: <000501bdc331\$a29db420\$97486420@m118046h.stny.lrun.com>  
From: "Bill Coleman N2BC" <n2bc@ibm.net>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: 75A-4 and the birds  
Date: Sat, 8 Aug 1998 21:02:19 -0400  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Still chasing my tail on a couple of strong birdies on my 75A-4. They are the 4th and 5th harmonic of the BFO (1.82mc and 2.275mc) sneaking into the 2nd mixer. Listening to the BFO on a GC RX shows a lot of harmonic energy, equal to what I hear from my ancient sig gen.

For fun I piped the sig gen in place of the BFO and have similar results. I have played with lead dress around the 2nd mixer with no success.

I am pretty sure the birdies started after I pulled the front panel (pot cleaning & new drum overlay) and adjusted the PTO end point - I say pretty sure only because I cannot imagine what that could have done to start this frustrating mess.

I've replaced the plate and screen bypass caps and the blocking cap for the BFO - no change. All the R's measure nominal, Volts are nominal on the BFO too. Snugged all the tube sockets and ground points...

Only thing I have not done is venture into the BFO L/C can - is there a secret to be found in there??

Ideas appreciated de Bill N2BC

-----  
Message-Id: <3.0.5.32.19980808210635.00bd4100@postoffice.worldnet.att.net>

Date: Sat, 08 Aug 1998 21:06:35 -0400  
To: Old Tube Radios <boatanchors@theporch.com>  
From: Ed Tanton <n4xy@att.net>  
Subject: RE: Let's see where this goes..  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Best weak signal: Drake R4-B  
Best audio: Hammarlund HQ-150 w/Matching spkr  
Smoothest operation: Hammarlund SP-600  
Overall Favorite BA GC rcvr: Collins 51S-1  
Overall Favorite BA HBO rcvr: National HR0-60

73

-----  
Ed Tanton N4XY EMAIL: n4xy@att.net  
189 Pioneer Trail  
Marietta, GA 30068-3466 TEL: (770)579-3933 V/MBX/FAX

-----  
INTERESTS: QRP BoatAnchors Test Equipment Photography  
CW: 99.9% Mercury Paddle # 0214 QRP to 150W: 95%

~~~~~  
"Think you can, think you can't: either way you're right!" Henry Ford  
~~~~~

-----  
Message-Id: <l03130300b1f2b3fb1910@[199.34.24.29]>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Sat, 8 Aug 1998 21:04:59 -0500  
To: Old Tube Radios <boatanchors@theporch.com>  
From: "Jay H. Miller" <jmiller@teleteam.net>  
Subject: CCA Convention Information

COLLINS COLLECTORS ASSOCIATION  
1998 NATIONAL CONVENTION  
OCTOBER 15- 18 \* DALLAS, TEXAS

The CCA will have its first annual National Convention in Dallas October 15-18. While convention activities are open to CCA members only, anyone with an interest in Collins radios can become a member of the organization.

The three day event will feature clinics, programs and hands-on workshops by the best of the best in our hobby. Cosmetic restoration, operation, modification, repair and troubleshooting will be discussed, cussed and discussed again!

Scheduled to appear include:

Bud Whitney, K7RMT \* Butch Schartau, K0BS \* Wayne Spring, W6IRD  
Warren Hall, K0ZQD \* John Bess, WA5VVT \* Bob Hicks, W5TX  
Dennis Brothers, WA0CBK \* Harry Snyder, W7HC \* Jim Stitzinger, WA3CEX  
Mac McCullough, W5HPM \* Yves Pautard, WN4I \* Warren Bruene, W5OLY  
and more!

There will be a bus tour on Saturday to several local collectors' shacks  
for open house as well as a tour of the Dallas Rockwell-Collins  
manufacturing plant.

Collins-Rockwell Company amateur radio club stations W0CXX/5 and W5ROK will  
be on the air with a special event station and the restored Collins Radio  
Company Communications Van will be on display (and operational) during the  
convention.

A Texas-Style bar-b-que dinner is on tap Saturday night at the South  
Arlington Radio Ranch of Jenks Garrett, K5YNZ.

A meeting room at the hotel will also be open during the convention for  
vendor and individual swap/sell/trade and display. This is not a swapfest  
or a fleamarket, it is simply a way for folks who make Collins parts and  
goodies to deal one-on-one with other Collins fans. Awards will be  
presented for Best Restoration and Most Unusual Piece.

Sunday morning will feature a buffet breakfast and a very special keynote  
address as well as installation of new CCA board members.

For additional information on membership, please see the CCA Website at:  
<http://www.colcol.com>

To receive a brochure on the Convention and a membership application,  
e-mail complete snail-mail address to: [jmiller@teleteam.net](mailto:jmiller@teleteam.net)

Registration deadline is October 1, 1998.

Thanks for your interest and we hope you'll join up and come to our  
convention! We fully expect this to be THE classic radio event of the year.

\*\*\*\*\* #\*\*\*\*\*# \*\*\*\*\*

Jay H. Miller, KK5IM Dallas, Texas

The Pocket Guide to Collins Amateur Radio Equipment

ARRL \* AMI#846 \* Collins Collectors Association \* DXCC

E-Mail: [jmiller@teleteam.net](mailto:jmiller@teleteam.net)

Visit My Home Page: <http://www.teleteam.com/~jmiller/>

\*\*\*\*\* Proud to be 100% Macintosh since 1984! \*\*\*\*\*

-----  
From: gpewitt@execpc.com  
Date: Sat, 8 Aug 98 21:00:42 PDT  
Subject: Re: Lets see...  
To: Old Tube Radios <boatanchors@theporch.com>  
Cc: boatanchors@theporch.com  
Message-ID: <Chameleon.980808210337.gpewitt@execpc.com>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; CHARSET=US-ASCII

I never said it wasn't an excellent radio. Just that  
they let some designer run wild on the cabinet.  
I love Nationals, I have 11 of them and want more.  
I'd love to have an NC400 but I would cover it  
with a sheet when not in use. ;-)  
73 Gary

-----Original Message-----

Now wait just a danged minute! Beauty is as beauty does, Gary My NC-400  
may look like a microwave oven, but it plays wonderfully...

73, Mike, K0MYW

On Sat, 8 Aug 1998 gpewitt@execpc.com wrote:

> Since we're adding new catagories how about:  
>  
> Best looking: Tie between Sp-600JX21 and GPR90RX  
> Worst looking: NC400  
> Lightest: Drake 1A  
> Heaviest: WRR2 or for one piece unit AR88  
>  
> 73 Gary

> -----  
> Name: Gary Pewitt N9ZSV/KT  
> 6120 W. Calumet Rd. Apt 204  
> Milwaukee, WI 53223  
> 414 355 8147 Home 414 297 4307 Work  
> E-mail: gpewitt@execpc.com  
> Date: 08/08/98  
> Time: 17:19:04

>  
>  
> -----  
>  
>

-----End of Original Message-----

-----  
Name: Gary Pewitt N9ZSV/KT  
6120 W. Calumet Rd. Apt 204  
Milwaukee, WI 53223  
414 355 8147 Home 414 297 4307 Work  
E-mail: gpewitt@execpc.com  
Date: 08/08/98  
Time: 21:00:42  
  
-----

-----  
Message-ID: <35CCBEF6.21DFEAA3@hal-pc.org>  
Date: Sat, 08 Aug 1998 21:11:18 +0000  
From: Tom Smith <tsmith@hal-pc.org>  
MIME-Version: 1.0  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: WTB HP-410B ac probe tube  
Content-Type: multipart/alternative;  
boundary="-----8B0EFEF083BF09871015EEA2"

-----8B0EFEF083BF09871015EEA2  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

All this talk on the HP 410-B has me itching to get mine back on line.  
The only problem is the need for one of the EA-53 or the 2-01C tubes for  
the ac probe.

Does anyone out there have a box full of these things and would be  
willing to part with one??

Thanks! Tom Smith N5AMA

-----8B0EFEF083BF09871015EEA2  
Content-Type: text/html; charset=us-ascii  
Content-Transfer-Encoding: 7bit

<HTML>

All this talk on the HP 410-B has me itching to get mine back on line.

The only problem is the need for one of the EA-53 or the 2-01C tubes for the ac probe.

<P>Does anyone out there have a box full of these things and would be willing to part with one??

<P>Thanks!&nbsp; Tom Smith&nbsp; N5AMA  
<BR>&nbsp;  
<BR>&nbsp;  
<BR><FONT SIZE=-1></FONT>&nbsp;</HTML>

-----8B0EFEF083BF09871015EEA2--

-----  
From: PLT1032@aol.com  
Message-ID: <15819c5f.35cd08c4@aol.com>  
Date: Sat, 8 Aug 1998 22:26:11 EDT  
To: Old Tube Radios <boatanchors@theporch.com>  
Mime-Version: 1.0  
Subject: DY82AB7 Filter Choke  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7bit

Anyone have the specs on a DY82AB7 choke that is installed in a 12 volt dynamotor power supply that I just picked-up?

Bob Lindgren

-----  
Message-ID: <35CD0770.7450BF5A@internettpport.net>  
Date: Sat, 08 Aug 1998 21:20:33 -0500  
From: Bill Wilson <billo@internettpport.net>  
MIME-Version: 1.0  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: RE: Let's see where this goes  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Greetings,

The best looking BA RX of all time?....SX-28 (there ought to be a picture of it in the dictionary under boatanchor!)

Best for SWL'ing (weak stations, best audio recovery)?....Motorola R-390A and the '67 EAC R-390A (never tried the GPR-90 or 51S1...yet)

Best for sideband?.....R4C gets the job done better than the R4B when the going gets really bad, R4B out of the box is hard to beat, nicer audio. 75A4 also does a good job.

Best sounding?.....Technical Radio LRR-6, SX-28, SX-115



Smoothest feel? 51J4, SP-600, Technical Radio LRR-6  
Ugly? R-392 (not too mention a knuckle grinder)  
Most difficult to QSY?....Hammarlund Comet-Pro  
Best use of wide open spaces? Look inside a late model Hammarlund  
(170/180)

Which brings me to this question....What is the "first" (and last?  
Maybe the Fowler R-390A's from 1984?) BA RX??

Regards,

Bill  
W4BIZ  
Jacksonville, Al.

Regards,

Bill  
W4BIZ  
Jacksonville, Al.

-----  
Message-Id: <199808090231.TAA01423@mail3.sirius.com>  
From: "Jim Carrington" <jcall@sirius.com>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: Re: Foothill Rx asking prices  
Date: Sat, 8 Aug 1998 19:35:57 -0700  
MIME-Version: 1.0  
Content-Type: text/plain; charset=ISO-8859-1  
Content-Transfer-Encoding: 7bit

A few comments, the SP-600 was recapped and working (except for BF0), and was pretty clean, so I dont think its price was out of line.  
Also seen was another HRO-500 , the portable model, with internal speaker and National carrying case for \$300 asking. the radio was not working and had the tuning stops sheared off. I was tempted though.

Three other radio's seen were a Hallicrafters S-72r portable in nice brown leatherette case looking like an old typewriter for \$50-went home with me.

Also saw an ARR-41 going to a new home . Wished it was my home. This radio looks like a black baby R-390. Dont know what it went for.

There was also a Hammarlund Comet Pro for \$75 . As I was looking it over, I noticed another guy going thru a box of ceramic coils about 6 feet away. When I finished examining the Pro , this guy had bought the coils and

manual for \$10. I asked him if he would sell me the coils and I'd even give him \$5 more than he paid, but he wanted to use the forms for some regen set he was building. I notified the seller of the Comet Pro that the coils and manual had been sold separate from the radio and together we pleaded and succeeded in getting them back . The Pro is about a 7 cosmetically and looks handsome in its black wrinkle cabinet. Its missing its 4 large 8uf filter caps and has been worked on and has an extra pot on the front panel but , hey, it has no corrosion and is still a handsome radio. Hope I can find the time to bring it back to life now that

There was also a clean Drake 4B set for \$400 but no power supply.

Other items of interest , tons of test gear.

I picked up a claimed working Boonton 250A Rx bridge after much bargaining , for \$65 and an GR 1650 impedance bridge untested and missing its battery cover for \$25. A good day.

Jim Carrington

-----  
> From: Gary Gitzen <garyg@cup.hp.com>  
> To: Old Tube Radios <boatanchors@theporch.com>  
> Subject: Foothill Rx asking prices  
> Date: Saturday, August 08, 1998 9:39 AM  
>  
> Hi Filamentarians,  
>  
> This morning I noticed a number of Rx for sale at the Foothill College  
> swap meet. Asking prices were:  
>  
>   HR0-500   \$400 Very poor sensitivity  
>   SP-600    \$175  
>   SX99 \$90  
>   SX86 \$75  
>   SX71 #110 Needs work  
>   SX101    \$130  
>   HQ-110    \$70 Needs work  
>   NC-188    \$75 Matching spkr \$35  
>   DX160    \$55  
> And you'd better sit down for this  
>   75A-4     \$1150  
>  
> All were still there at 0900, which is getting very late for Foothill.  
>  
> Gary  
>

-----  
From: gpewitt@execpc.com  
Date: Sat, 8 Aug 98 21:17:59 PDT

Subject: RBL ramblings  
To: Old Tube Radios <boatanchors@theporch.com>  
Message-ID: <Chameleon.980808213626.gpewitt@execpc.com>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

BAer's,  
I've been looking over my RBL-2 and gathering what info I can find on it. So far I've discovered it is not a catacomb coil set as I had thought. It sure looks like the NC100 series. The coil sets are switched and are in 6 large non magnetic stainless steel cans. The cans unscrew to allow access to the coils. Big ones. It's a true regen with 2 rf stages followed by a regenerative detector and two af stages. There is another tube for ANL and a rectifier for 7 tubes total. This is by far the most sophisticated regen I have ever seen. Are there others even better?  
Some of the navy or merchant ship rigs?  
Moore's book doesn't cover regens, too bad.  
I'd sure like to have an equal quality or better rig that covered the shortwave bands at least up to 20 mc. or so.  
I noticed that it was delivered in 1942 and was built for 115v not 110v as you might have expected.  
I wonder if Maj. Armstrong had not invented superhetrodyne ckts. what might the regen radios have developed into?  
Superregen just cut the feedback off and on to allow more boost (so to speak) right?  
Any information on other high quality regens would be very welcome. Thanks Gary

-----  
Name: Gary Pewitt N9ZSV/KT  
6120 W. Calumet Rd. Apt 204  
Milwaukee, WI 53223  
414 355 8147 Home 414 297 4307 Work  
E-mail: gpewitt@execpc.com  
Date: 08/08/98  
Time: 21:17:59

-----  
-----  
Date: Sun, 9 Aug 1998 00:06:01 -0400 (EDT)  
Message-Id: <199808090406.AAA14201@mail.quebecotel.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
To: Old Tube Radios <boatanchors@theporch.com>  
From: luc dugas <collins2@globetrotter.net>

Subject: let see where this goes

best audio: rca ar-77. let me mention some strange rx ba we have in canada.  
stewart-warner RPA-3 sparton model X-1 rca CR-1889MINE IS THE ONLY KNOWN  
TO EXIST IN THE WORLD!!!!) marconi csr-5(have a dozen, if you want one lettr  
me know) marconi atalanta, marconi 52 set, siemens 745E 310a philips BX  
925A/09 etc

luc dugas ve2lgj rimouski quebec

-----  
Message-ID: <016f01bdc34b\$4c1eeaa0\$11865aa5@Pzellmer.raccoon.com>

From: "Jim Zellmer" <zellmer@raccoon.com>

To: Old Tube Radios <boatanchors@theporch.com>

Subject: Re: Let's see where this goes..

Date: Sat, 8 Aug 1998 23:07:58 -0500

MIME-Version: 1.0

Content-Type: text/plain;  
charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

New Catagory:

Best Bed Side BA : Hammarlund HQ-180. Good AM, SWL and Ham bands cruiser.  
Fair audio and sensitivity. The best part is the little half moons of light  
the show all around the room generated by 3 #47 bulbs and 5 gazillion little  
ventilation holes in the case. A wonderful night lite too.,

73

Jim Zellmer, KA0VSL

-----  
Message-Id: <1.5.4.32.19980809045648.00a368a8@mailhost.vuse.vanderbilt.edu>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

Date: Sat, 08 Aug 1998 23:56:48 -0500

To: Old Tube Radios <boatanchors@theporch.com>

From: "A.B. Bonds" <ab@vuse.vanderbilt.edu>

Subject: Dial covers

Dial covers are those clear plastic molded thingies that turn yellow, shrink  
and warp. They are punishment for our wasting time on useless old artifacts.

That being said, I have recently gotten a NEW dial cover for my Sprague T0-3  
Tel0hMike. Fits perfectly, looks great. The dial cover wizard is Rita  
Hutchings, radiorita@aol.com. She can apparently make just about anything,  
and at a reasonable price (the T0-3 cover, which is 5" x 6", was \$18  
shipped). You will need to make a tracing of the opening to make sure she

doesn't waste her time....

No, I don't get a kickback, just a happy customer.

A. B. Bonds

-----  
Message-Id: <1.5.4.32.19980809050941.00a5d638@mailhost.vuse.vanderbilt.edu>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Sun, 09 Aug 1998 00:09:41 -0500  
To: Old Tube Radios <boatanchors@theporch.com>  
From: "A.B. Bonds" <ab@vuse.vanderbilt.edu>  
Subject: SX-42 gotchas

Finishing up a total redo of an SX-42 (one o' them good-sounding radios....)  
Ran into two problems that might occur on other similar sets.

The plate of the first rf stage is fed by a 1.2k resistor. This kept burning up, despite my efforts to find any ground path. Turns out that the plate is fed through a transformer winding. The lead is about 3" long. It is silk-covered wire. Although there is varnished cambric on the lead, it wasn't quite long enough. The wire was shorting onto a bandswitch pin, intermittently. After covering the lead with a longer piece of shrink, the problem went away.

To be replaced by another problem. The 1.2K resistor feeding the plate to the SECOND rf tube also fried. Ah, think I, I know what's wrong. Put shrink on the transformer lead, no joy. This one involved a small burn that had appeared on the bandswitch, about a 2k path to ground. The trusty Dremel removed the offending substance and a small chunk of the nearby grounded spacer.

I seem to be running short of 1.2k resistors... Did I mention that SX-42's are proper swines to work on? Well, they are.

A. B. Bonds

-----  
Date: Sun, 9 Aug 1998 01:19:08 -0400 (EDT)  
Message-Id: <199808090519.BAA20308@mail.quebectel.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
To: Old Tube Radios <boatanchors@theporch.com>  
From: luc dugas <collins2@globetrotter.net>  
Subject: addendum

i forgot to mention in my previous e-mail that my drake 2c wears the serial

no: 0001.

it is strange that receiver ended up in quebec, that receiver is a fine piece of equipment.

luc dugas ve2lgj 73s to all

-----  
Message-Id: <199808090640.BAA02675@loki.internettport.net>  
From: "Steve" <scb@mail.internettport.net>  
To: Old Tube Radios <boatanchors@theporch.com>  
Date: Sun, 9 Aug 1998 01:21:45 +0000  
MIME-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7BIT  
Subject: Re: Let's see where this goes...  
CC: boatanchors@theporch.com

"-----Collins 51S-1-----The AM audio sounds a bit constipated,-----"

Hi Dexter;

Nearly all AM radios sound "constipated" to me, including my R-390A except in MVC/MGC (and full bandwidth mode, of course). Maybe an artifact of the AGC running the IF amp close to cutoff and compressing its amplitude range and / or low level detector nonlinearity . BC-348 manual mentions this as one reason it runs high level detection and it's one of the few sets that doesn't sound cramped to me. Detuning the AGC IF stage on an NC-183 to reduce AGC level and raise detector output without changing the time constant really did eliminate the cramped sounding audio without affecting the sets ability to cope with strong sigs which sounded much better and without overloading. This will be the basis for a 'Fidelity mod" to my '390A when I get around to trying it. Try your Collins on "MGC" in full bandwidth and see if the "constipation" abates. If not the source is probably after the last IF can.

Regards;        Steve

-----  
Message-Id: <199808090752.CAA02604@smtp2.mailsvcs.net>  
From: "Grant Youngman" <nq5t@gte.net>  
To: Old Tube Radios <boatanchors@theporch.com>  
Date: Sun, 9 Aug 1998 02:52:10 -0500  
MIME-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7BIT  
Subject: CV-591A Operating Characteristics -- Conclusion

Gang ..

Last weekend I posted a note grouching about the performance of my CV-591A. Thanks to everyone for all the comments. Several people asked I post whatever fixes I found ... apparently I wasn't the only person experiencing iffy performance.

The major problem turned out to be dirty contacts on relays K-1 and K-2. One set of contacts on K-1 couples the filtered 1st mixer output into the 2nd mixer input. Burnished the contacts with a piece of bond paper and followed with a shot of DeOxit. This fixed the "low audio" problem completely.

A half dozen resistors in the signal chain were more than 10% off value, and I replaced those. None resulted in an individually astounding change, but the cumulative effect is quite noticeable.

The AGC action is more apparent when I drive the unit from my SP600 than it is from the R390A -- because the IF output level is higher from the Hammarlund. I replaced all the AGC circuit caps and verified each resistor value. So I think it probably is working as well as its supposed to. Attack time response is a bit slow, so there is still the "pop" in volume with the first syllable from very strong stations, but the overall effect is improved.

So its time to move on to the next project ... The CV-591A is a nice box --- but frankly, the Hammarlund HC-10 still beats it by a long shot with better AGC, nicer audio, and better AM performance. Of course, the HC-10 also has a few quirks and warts of its own ....

Grant

-----  
Grant Youngman / NQ5T

nq5t@gte.net  
BA pics at <http://home1.gte.net/nq5t>  
Double Oak, TX -- nr Dallas

-----  
From: "David Newkirk" <dpnewkirk@home.com>  
To: Old Tube Radios <boatanchors@theporch.com>  
Cc: "BoatAnchor List" <boatanchors@theporch.com>  
Subject: RE: Let's see where this goes...  
Date: Sun, 9 Aug 1998 07:39:20 -0400  
Message-ID: <000201bdc38a\$58ffbc60\$33940318@cc632587-a.vron1.nj.home.com>  
MIME-Version: 1.0

Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Steve wrote:

> Nearly all AM radios sound "constipated" to me, including my R-390A  
> except in MVC/MGC (and full bandwidth mode, of course). Maybe an  
> artifact of the AGC running the IF amp close to cutoff and  
> compressing its amplitude range and / or low level detector  
> nonlinearity . BC-348 manual mentions this as one reason it runs  
> high level detection and it's one of the few sets that doesn't sound  
> cramped to me.

Even though its output stage is only one EL84, my Rohde & Schwarz EK-07, the 3-dB audio response of which is specified as 40 to 6000 Hz (and 1.5% distortion at 1 W out for a 30% modulated input signal) has pretty gutsy audio for this reason. As part of its design for better linearity, its final IF stage receives only 1/5 the available AGC voltage.

> Try your Collins on "MGC"  
> in full bandwidth and see if the "constipation" abates.

A receiver can sound cleaner in MGC mode than with AGC on for another reason in addition to issues of detector drive and IF-stage overload. A receiver's AGCed stages can be considered as a form of mixer in which one signal (the received signal at IF) is mixed with a very low-frequency signal (the variable AGC voltage). Whatever audio-frequency ripple exists on the AGC line will modulate (in some professional circles the term would be "remodulate") the IF signal. If, as is usually the case, the AGC filtering is low-pass, this effect, the audible artifacts of which can include audio IMD and partial suppression of lower-frequency recovered audio, increases inversely with frequency. Depending on the AGC design, some receivers have perceptibly better audio at their slowest AGC setting as a result of this mechanism.

Coupling a high-gain, flat-down-to-Sensurround audio amplifier to the AGC bus can give you an idea of what's on the AGC line in addition to dc.

73,

Dave Newkirk, W9VES  
dpnewkirk@home.com

-----  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Sun, 9 Aug 1998 12:58 +0100 (BST)



From: midshires@cix.co.uk (Andrew Emmerson)  
Subject: First use of co-ax?  
To: Old Tube Radios <boatanchors@theporch.com>  
CC: midshires@cix.co.uk  
Message-Id: <memo.19980809125815.64265F@midshires.compulink.co.uk>

Who 'invented' coaxial cable and when did it first enter use for RF and baseband transmission lines? Someone has asked me the question and I'm not entirely sure. I know it was used for \_power\_ transmission soon after 1900 and was then called \_concentric\_ cable. Any ideas?

Andrew Emmerson G8PTH  
tel: 07000-405625, international +44 1604-844130  
fax: 01604-821647, international +44 1604-821647

-----  
Message-Id: <3.0.32.19980809090354.00693594@mail.serix.com>  
Date: Sun, 09 Aug 1998 09:03:57 -0400  
To: Old Tube Radios <boatanchors@theporch.com>  
From: Robert Ross <radiorob@serix.com>  
Subject: British GEC QU37 Tubes for Sale.....  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Hello:

I have the following Tubes for sale.....They are all NEW IN Original GEC Blue/White Boxes.....with Original packing.

I am not really sure what they are ????. But if someone can use these tubes...please email me your offer on these....and I will sell them to the best offer in USA Dollars. I will describe these tubes below.....

GEC    England    QU37        NIB/NEW        ..... Have   17 Of these tubes

These are small miniature sized tubes that have one wire coming out of one end..and have 2 wires coming out of the other. They have no plastic Base or Pins. There is also a code stamped on the tubes ....

ZB    Z

If you know what these tubes are..and have a Use for them.....please email me your offer. These aren't much good to me....as I don't know what they are used for.....

Regards.....ROB..

-----  
End of BOATANCHORS Digest 2161

\*\*\*\*\*

>From ???@??? Mon Aug 10 02:03:22 1998  
Message-Id: <199808100041.TAA11015@sco.theporch.com>  
Date: Sun, 9 Aug 1998 19:40:28 CDT  
Subject: BOATANCHORS digest 2162

BOATANCHORS Digest 2162

Topics covered in this issue include:

- 1) Parting out SX-101 & HT-32  
by JONWEINER@aol.com
- 2) RE: Let's see where this goes...  
by Bob Roehrig <broehrig@admin.aurora.edu>
- 3) Re: RBL Ramblings  
by Jim Hill <jshillw6ivw@earthlink.net>
- 4) Dual fused plugs, was Re: HEAVY DUTY AC POWER  
by "Roberta J. Barmore" <rbarmore@indy.net>
- 5) National HRO-5TAI  
by Sven Grandell <sierra.victor@swipnet.se>
- 6) ADMINISTRIVIA: No More Reposts  
by listown@jackatak.theporch.com (Mail List Owner)
- 7) R388 Crystals & 74A4 Crystal Wanted  
by "ROBERT F. KEMP" <rkemp@mr.net>
- 8) CCA Convention Correction  
by "Jay H. Miller" <jmiller@teleteam.net>
- 9) Re: Homebrew Amp  
by George T Folse III <kb5ww@bellsouth.net>
- 10) WRC-1  
by "Paul Bernhard Sr." <w2tu@email.msn.com>
- 11) FS Strongberg Carlson 20A Chassis and Speaker  
by George T Folse III <kb5ww@bellsouth.net>
- 12) LET'S SEE WHERE THAT GOES...  
by JOHN\_SEHRING.parti@ecunet.org (JOHN SEHRING)
- 13) Re: National HRO-5TAI  
by "Lawrence R. Ware" <lrware@pipeline.com>
- 14) Re: RBL ramblings  
by Al Parker <anchor@coastalnet.com>
- 15) AN/URM-25D Renovation  
by "Grant Youngman" <nq5t@gte.net>
- 16) Re: Let's see where this goes..  
by Tom Norris <badger@telalink.net>
- 17) Change of Address

- by Hal Waite <halwaite@sprintmail.com>  
18) FS: Collins PRC-47  
by Billy Wiggins <bwiggg@worldnet.att.net>  
19) Dial covers redux  
by "A.B. Bonds" <ab@vuse.vanderbilt.edu>  
20) 75A-4 humble pie - birdies gone  
by n2bc@ibm.net  
21) Re: RBL ramblings  
by "Benjamin D. Hall" <kd5byb@WT.NET>  
22) Seen at St. Cloud, MN  
by Bill Hawkins <bill@iaxs.net>  
23) Re: 75A-4 humble pie - birdies gone  
by Jim Lockwood <jmlckwd@mindspring.com>  
24) RE: ULTRA AMPLITUDE MODULATION REF'S  
by Ed Sieb <esieb@gmsiworld.com>

-----  
From: JONWEINER@aol.com  
Message-ID: <7229acfc.35cda9c3@aol.com>  
Date: Sun, 9 Aug 1998 09:53:06 EDT  
To: Old Tube Radios <boatanchors@theporch.com>  
Mime-Version: 1.0  
Subject: Parting out SX-101 & HT-32  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7bit

I have been parting out both of the above units. Although many parts have been sold, much remains. The TX power transformer and choke, many knobs, the fan & cage, SX-101 glass have been sold. Cabinets, panels and bezels are available, as are most of the internal parts. E-mail me with your needs.

Jon, K1VVC

-----  
Date: Sun, 9 Aug 1998 09:18:44 -0500 (CDT)  
From: Bob Roehrig <broehrig@admin.aurora.edu>  
To: Old Tube Radios <boatanchors@theporch.com>  
cc: Old Tube Radios <boatanchors@theporch.com>  
Subject: RE: Let's see where this goes...  
Message-ID: <Pine.ULT.3.96.980809091657.8984E-100000@admin.aurora.edu>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Sun, 9 Aug 1998, David Newkirk wrote:

> Whatever audio-frequency ripple exists on the AGC  
> line will modulate (in some professional circles the term would be  
> "remodulate") the IF signal. If, as is usually the case, the AGC filtering

> is low-pass, this effect, the audible artifacts of which can include audio  
> IMD and partial suppression of lower-frequency recovered audio, increases  
> inversely with frequency. Depending on the AGC design, some receivers have  
> perceptibly better audio at their slowest AGC setting as a result of this  
> mechanism.

I have run across this numerous times. Now, I usually look at the AGC  
bus with a scope and, if necessary, increase the cap value that  
filters the AGC.

"Nostalgia is a thing of the past"  
E-mail broehrig@admin.aurora.edu 73 de Bob, K9EUI  
CIS: Data / Telecom Aurora University, Aurora, IL  
630-844-4898 Fax 630-844-5530

-----  
Message-Id: <3.0.5.32.19980809075056.0168fa00@earthlink.net>  
Date: Sun, 09 Aug 1998 07:50:56 -0700  
To: Old Tube Radios <boatanchors@theporch.com>  
From: Jim Hill <jshillw6ivw@earthlink.net>  
Subject: Re: RBL Ramblings  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

Gary: You said

Moore's book doesn't cover regens, too bad.  
I'd sure like to have an equal quality or better rig that covered the  
shortwave bands at least up to 20 mc. or so....

I suggest you look for a RAK/RAL receiver. These two don't have direct  
frequency readout, but are excellent quality large, heavy regen's with a  
good adjustable audio filter for CW reception. One covers below the  
broadcast band, and the other medium wave and short wave. I think the RAL  
is the short wave receiver.

It's early morning, and I'm in my pajamas at the computer, waiting for my  
wife to wake up. I can go outside and get the manual for more details  
later, if you are interested.

73's Jim

-----  
Date: Sun, 9 Aug 1998 10:12:40 -0500 (EST)  
From: "Roberta J. Barmore" <rbarmore@indy.net>  
To: Old Tube Radios <boatanchors@theporch.com>

cc: Old Tube Radios <boatanchors@theporch.com>, doowop6@juno.com,  
wa8mlv@juno.com, w8vrj1@juno.com, gmisic@medrad.com  
Subject: Dual fused plugs, was Re: HEAVY DUTY AC POWER  
Message-ID: <Pine.SUN.3.96.980809094957.26207B-100000@indy2>  
MIME-Version: 1.0  
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi!

At work, I'm a safety pest--probably because I'm no good at first aid. At home, considering that I'm the only person who uses the shack, I don't go out of my way to make my work area \*automatically\* idiotproof.

I have a double-fused plug on one piece of gear, a very nice HRO-5TA. Had to replace the line cord and wanted to keep it as original as possible, which meant a cloth-covered cord and no added fuseholder on the power supply. Still, a cooked doghouse PSU would be a \*big\* tragedy! So it got a a semi-safe fused plug: there's a chunk of 1/4" brass rod in place of one fuse, and the "hot" side of the plug where the actual fuse lives is marked with red paint, filling up the textured finger-grip. You go to plug it in, you look at the socket and the plug, and you match up the hot sides. (Ummm, for those who haven't had a gander at the insides, this would be the narrow prong in the US and Canada. UK plugs, you only have one choice ['s the right side is hot, no?] and they're all 3-prong; those round jobs used on much of the Continent are a whole other story and a bit iffy IMO--what I've seen was grounding but could be plugged in either way 'round!).

A slightly niftier and more automatic method is to silver-solder some brass wire on the neutral side prong and file it to the proper size and shape to create a (N. American) polarized plug. But you'd better make a \*darned\* good solder joint, as it would be nasty to have it stick in the socket!

In the old days in the BC biz, we hardwired the power to all the gear in a rack, using big barrier strips with covers. At least that way you could get it right and keep it right--but it makes servicing a real beast!

73,  
--Bobbi

(PS: Ask me some time about the only house I ever owned, which was all wired up knob-and-tube and had \*one\* (1) neutral wire, same size as all the others or a bit smaller, running down the middle of the basement with the returns wrapped around and soldered to it, wrapped in decaying rubber tape covered with frayed friction tape. No, \*don't\* ask, I haven't had any of the nightmares I used to have back then for a long time.... But if anyone flipped any switch anywhere in the place, you sure knew it from the way the lights flickered! Had to mark things so I could try to keep

the neutral current balanced out).

KB9GKX "RJ" rbarmore@indy.net Roberta J. (Bobbi) Barmore  
FISTS #3388 \* G-QRP #10001 \* ARRL \* RSGB \* WIA  
Appreciator Of Vacuum-Tube Ham Gear and Vintage Keys

-----  
Message-ID: <01BDC3C1.4A3EB550.sierra.victor@swipnet.se>  
From: Sven Grandell <sierra.victor@swipnet.se>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: National HRO-5TAI  
Date: Sun, 9 Aug 1998 18:12:15 +0200

Schematic tells IF peak 456 kc but is the frequency of xtal in crystal filter the same

456.0 kcs?

Suppose that I need to exchange xtal because when filter is on the receiver is silent.

SS of N have a xtal of 454.2 kc. Could I use that and make a alignment down?

73 de Sven, SM3SV

-----  
Message-Id: <199808091615.LAA01309@jackatak.theporch.com>  
From: listown@jackatak.theporch.com (Mail List Owner)  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: ADMINISTRIVIA: No More Reposts  
Date: Sun, 9 Aug 98 11:15:01 CDT

Gang-

This is a reminder that reposting of For Sale or Wanted items from other lists is discouraged.... nay prohibited on the BoatAnchors list.

If a BA list member wants to post the item elsewhere and on the BA list, that should create NO problem.

The problem comes when the poster in the other venue is not asked about the re-post... without the permission of the poster, problems are guaranteed, and I do not have the time, the energy, or the desire to address and deal with the headaches that re-posting causes...

So, henceforth, let's have NO re-posts from other sources referred to the list. Yes, I know this may sound pretty provincial, but those who really care have browsers and know where to look, and those who don't, probably don't....

I do NOT need the aggravation of someone who posts to a newsgroup and

then has to fight off the hungry folks from the BA list who want to rearrange his viewpoint or calibrate his selling technique.

ENOUGH! Already... Just don't do it!

--

73

Jack, W4KH/Mobile - - - Mailing List Archiver/Owner - - -  
listown@jackatak.theporch.com - "Plus ca change, plus c'est la meme chose"  
"Il n'y a que les idiots qui ne changent jamais d'idee"  
Sun Aug 9 11:15:00 CDT 1998

-----  
Message-ID: <37AF1EAE.5B98@mr.net>  
Date: Mon, 09 Aug 1999 11:32:14 -0700  
From: "ROBERT F. KEMP" <rkemp@mr.net>  
MIME-Version: 1.0  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: R388 Crystals & 74A4 Crystal Wanted  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

Hello all. I'm in need of the following crystals to restore my  
R388. 10.6 and 11.0 and on the 75A4 - 40 meter crystal which is  
a 9.3 mc.

-----  
Message-Id: <l03130304b1f377d228c7@[199.34.24.15]>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Sun, 9 Aug 1998 11:02:23 -0500  
To: Old Tube Radios <boatanchors@theporch.com>  
From: "Jay H. Miller" <jmiller@teleteam.net>  
Subject: CCA Convention Correction

I neglected to include in yesterday's post (operator error) that one other individual will be on the CCA program:

J. B. Jenkins, W5EU will give a talk about pre-war Collins equipment.  
JB will also have his collection and antenna farm on the bus tour.

Other folks will be announced as they commit.

Thanks for all the interest from those who have asked for brochures and membership applications. They will go out in tomorrow's mail.

\*\*\*\*\* ##### \*\*\*\*\*

Jay H. Miller, KK5IM                      Dallas, Texas  
The Pocket Guide to Collins Amateur Radio Equipment  
ARRL \* AMI#846 \* Collins Collectors Association \* DXCC  
E-Mail: jmiller@teleteam.net  
Visit My Home Page: <http://www.teleteam.com/~jmiller/>  
\*\*\*\*\* Proud to be 100% Macintosh since 1984! \*\*\*\*\*

-----  
Message-ID: <35CDDCE6.5B9D@bellsouth.net>  
Date: Sun, 09 Aug 1998 12:31:18 -0500  
From: George T Folse III <kb5www@bellsouth.net>  
MIME-Version: 1.0  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: Re: Homebrew Amp  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

All,  
The amp has been sold. Phil Mills picked it up today.  
Thanks,  
George

-----  
Message-ID: <000f01bdc3be\$7fe8aec0\$f5782599@default>  
From: "Paul Bernhard Sr." <w2tu@email.msn.com>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: WRC-1  
Date: Sun, 9 Aug 1998 13:50:11 -0400

Hi Gang;  
Read with interest the posts on the WRC-1 radio. I am fortunate to have one on the USS The Sullivans and use it on the ham bands regularly. I've received good audio reports using only the stock Navy handset and ships 35' vertical antenna.

The WRC-1 is a stack containing the R1051B receiver, T-827/URT transmitter (milli watts out) and the AM-3007/URT RF amp (about 100 watts out). It also uses the cu-937/ur ant coupler which I do not have.

For a look at the WRC-1 here check out the website and radio room tour at:

<http://www.geocities.com/~dd537>

Enjoy!

Paul B. W2TU

w2tu@msn.com



-----  
Message-ID: <35CDEDC3.353F@bellsouth.net>  
Date: Sun, 09 Aug 1998 13:43:15 -0500  
From: George T Folse III <kb5ww@bellsouth.net>  
MIME-Version: 1.0  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: FS Strongberg Carlson 20A Chassis and Speaker  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

All,

I have a Strongberg Carlson 20A speaker and chassis for \$100 plus shipping in ex working condition. The tubes in this chassis are 80,2-45s,4-24As,and 2-27s.

Thanks,  
George

-----  
MIME-Version: 1.0  
Content-Type: text/plain; charset="US-ASCII"  
Content-Transfer-Encoding: 7bit  
Date: Sun, 9 Aug 1998 15:34:16 -0400 (EDT)  
Subject: LET'S SEE WHERE THAT GOES...  
To: Old Tube Radios <boatanchors@theporch.com>  
From: JOHN\_SEHRING.parti@ecunet.org (JOHN SEHRING)  
Message-ID: <9808091534.aa20391@pcusa01.ecunet.org>

The Halli SX-115 has shown up a number of times as having smoothest audio on SSB.

I find that curious as the SX-101A (indeed the dual-conversion Halli's used virtually the same 50 kHz IF strip all the way back in time to the S-76 [and forward to the SX-122], althought a product detector didn't appear in this line 'til the SX-101A) have very much the same circuitry, particularly in the IF strip.

If you compare the -101A and -115 from the 1st 50 KHz IF stage onward (to product detector, AGC, audio), they are very, very similar. And those are stages where the "sound" quality of the radio is very much determined, e.g. kind of selectivity, distortion of product detector & audio stages, agc action on SSB.

The major diffs in the -115 are the dual-loop AGC circuit (the -115 uses the -101A-type of AGC circuit plus a separate AGC loop, AGC amp & detector)

and the audio output stage has negative feedback. Yes, the BF0/1st audio tube is different (min. 12AX7 instead of octal 6SC7, but equivalent tubes I think) but circuit is same even to the same BF0 coil.

I too have noticed how smooth the -115 is on SSB but have always wondered just why!

I have some spare Halli 50 KHz IF xfmr's & some day plan to duplicate the -115's dual loop AGC on my SX-100 which has the same product detector ct (added) as the -101A & -115 to see if that's what does the trick. Have had an SX-101A too.

I think that the gain distribution & AGC applied to each stage has been carefull thought out in the -115. Also, this kind of AGC has the effect of altering the "dynamic" selectivity of the radio, i.e. the two AGC channels are derived from points of differing amounts of selectivity \*and\* affect points of differing selectivity in the radio, e.g. RF vs. IF stage(s).

QST ads for this radio discuss this too.

However, neither the -101A nor -115 AGC ct. is capable of truly fast enough attack time to be "perfect" for SSB. It is a limitation of these AGC cts. that their AGC time constant ct. charging impedance is simply too high for that.

Look at the Drake R-4\* and Collins 75S-\* radios for solutions to that problem.

-John Sehring (12:11 pm Sat, Aug 8, 1998 at Custer, SD USA) ucc wb2eqg

-----  
Message-Id: <3.0.5.32.19980809151327.0087a620@pop.pipeline.com>

Date: Sun, 09 Aug 1998 15:13:27 +0000

To: Old Tube Radios <boatanchors@theporch.com>

From: "Lawrence R. Ware" <lrware@pipeline.com>

Subject: Re: National HRO-5TAI

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"

At 18:12 08/09/1998 +0200, Sven Grandell wrote:

>Schematic tells IF peak 456 kc but is the frequency of xtal in crystal >filter the same 456.0 kcs?

Close, but it does vary from crystal to crystal.

>Suppose that I need to exchange xtal because when filter is on the >receiver is silent. SS of N have a xtal of 454.2 kc.

>Could I use that and make a alignment down?

454 should be well within the range of the IF chain.

I wonder if your crystal is really bad? Or perhaps it is missing?  
I'm sure they exist, but I personally have never run across a  
truly bad National crystal.

I've seen dirty holders that acted like a bad crystal, and crystal filter  
assemblies that needed work, (also acted like a bad crystal.)

But never a bad crystal. Unless you break it in two, there is not much  
to go wrong with one.

Can you describe your problem/symptoms?  
-Larry

# Larry Ware  
# Admirer, Collector, Restorer of National Radio Company  
# receivers and other artifacts.  
# Orlando, Florida  
# lrware@pipeline.com

-----  
Message-Id: <3.0.5.32.19980809162300.007d2140@mail1.coastalnet.com>  
Date: Sun, 09 Aug 1998 16:23:00 -0400  
To: Old Tube Radios <boatanchors@theporch.com>  
From: Al Parker <anchor@coastalnet.com>  
Subject: Re: RBL ramblings  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

orig post fm Gary Pewitt N9ZSV/KT:

Hi guys,

I have an RBL-3, made by Wells Gardner. Larry Ware supplied a manual for  
it, and dial plastic. Nolan Lee helped with info. Got it about a month  
ago, have been into it the last week or 2. Interstage coupling caps, stg  
2-3 & 3-4 (mica) were very leaky, making the grid highly positive, and  
pulling the signal way down (to zero in one). One carbon resistor at the  
ANL had doubled in value, 490k vs 250k. With that fixed, it has good  
sensitivity & selectivity. Have been "logging" beacons within 100 miles,  
or so, easily, even with summer condx.

>The coil sets are switched and are in 6 large non magnetic stainless steel  
cans. The cans unscrew to allow access  
>to the coils. Big ones.

My cans appear to be aluminum, not a cheap commodity back then.

>I'd sure like to have an equal quality or better rig that covered the shortwave bands at least up to 20 mc. or so.

Yes, quality is good, and performance surprizingly good.

>I noticed that it was delivered in 1942 and was built for 115v  
>not 110v as you might have expected.

My contract date to the Navy was 1/11/43, there is "M.F.P. May 1945" stamped inside.

>Any information on other high quality regens would be very  
>welcome. Thanks Gary

To me, too.

73,  
Al, W8UT  
New Bern, NC  
Boat Anchors appreciated here  
anchor@coastalnet.com

-----  
Message-Id: <199808092105.QAA02180@smtp1.mailsvcs.net>  
From: "Grant Youngman" <nq5t@gte.net>  
To: Old Tube Radios <boatanchors@theporch.com>  
Date: Sun, 9 Aug 1998 16:05:37 -0500  
MIME-Version: 1.0  
Content-type: text/plain; charset=US-ASCII  
Content-transfer-encoding: 7BIT  
Subject: AN/URM-25D Renovation

Gang ...

Anyone out there have any experience doing rework/renovation on a URM-25D?

Or perhaps know of someone who does this sort of thing commercially?

Thanks ... Grant/nq5t

-----  
Grant Youngman / NQ5T

nq5t@gte.net  
BA pics at <http://home1.gte.net/nq5t>  
Double Oak, TX -- nr Dallas

-----  
Message-Id: <3.0.5.32.19980809151002.007c49b0@mail1.telalink.net>  
Date: Sun, 09 Aug 1998 15:10:02 -0600  
To: Old Tube Radios <boatanchors@theporch.com>  
From: Tom Norris <badger@telalink.net>  
Subject: Re: Let's see where this goes..  
Cc: <boatanchors@theporch.com>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

My vote for best audio, or at least loudest goes to  
my SP-210LX, also great with its continuously  
variable IF width.

Smoothest? Gotta be the SP-600 I \*USED\* to have  
( now owned by WS4S )

Weak signal? My best is either of my R-390A's,  
one is a 1960 EAC, the other a '63 Imperial.

My RBL-5 can dig some weak ones out of the noise  
pretty well too, being a simple, but heavy, TRF/regen.  
The tuning is silky smooth on it as well.

Most humble? A tossup between my National SW-54  
and my first-run S-38, with the Sw-54 in front because it has  
one less tube.....

73

Tom

-----  
Message-ID: <35CE180A.7CA9@pop.a001.sprintmail.com>  
Date: Sun, 09 Aug 1998 14:43:38 -0700  
From: Hal Waite <halwaite@sprintmail.com>  
MIME-Version: 1.0  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: Change of Address  
Content-Type: text/plain; charset=us-ascii  
Content-Transfer-Encoding: 7bit

What is the correct method to notify the Webmaster of a change of  
address? Thanks in advance.

73 de Hal K3AB/7

-----

Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
To: Old Tube Radios <boatanchors@theporch.com>  
From: Billy Wiggins <bwiggg@worldnet.att.net>  
Subject: FS: Collins PRC-47  
Cc: baswaplist@foothills.net  
Message-Id: <19980809221113.KSTC17774@LOCALNAME>  
Date: Sun, 9 Aug 1998 22:11:13 +0000

I have for sale a Collins PRC-47. 2-12 mhz 100w/20w/USB/CW. RT unit only,  
Sorry I have no accessories. If you need more specs or accessories check out  
Fair radio Sales Catalog.

\$95 plus shipping on \$50 lbs from 31701

Thanks,

Billy  
Albany, Ga

-----  
Message-Id: <1.5.4.32.19980809221822.00a3fe70@mailhost.vuse.vanderbilt.edu>  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Date: Sun, 09 Aug 1998 17:18:22 -0500  
To: Old Tube Radios <boatanchors@theporch.com>  
From: "A.B. Bonds" <ab@vuse.vanderbilt.edu>  
Subject: Dial covers redux

I made an address error in my previous posting. The dial covers deluxe come  
from radiorita@hotmail.com. Hope this didn't cause trouble.

A. B. Bonds

-----  
From: n2bc@ibm.net  
Message-ID: <000501bdc3e9\$3fc037c0\$9b486420@m118046h.stny.lrun.com>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: 75A-4 humble pie - birdies gone  
Date: Sun, 9 Aug 1998 18:58:37 -0400  
MIME-Version: 1.0  
Content-Type: text/plain;  
charset="iso-8859-1"  
Content-Transfer-Encoding: 7bit

Learned something today - don't run an A-4 with the side panel removed. All  
my birdie chasing went away when I reinstalled the left side (RF & mixers)

panel.

Frustrated in my birdie hunt, I decided to tackle a couple minor mechanical probs (KC dial rubbing and the MC dial cord). Pulled off the front panel, fixed up the mechanics, and reinstalled the front panel. This time I went thru and reinstalled the side panel to make sure the front panel had 100% support so as to not undo the mechanical fiddling, errr, adjustments. I had removed the side panel to do some clean up on a mech filter mod (S-line filters installed somewhere in a prior life).

Yep, the 4th and 5th harmonics of the BFO are keeping to themselves and the 2nd mixer is only mixing the PTO and the appropriate RF.

Repeat after me: reinstall the covers, reinstall the covers, reinstall the covers.

My thanks to all the tipsters out there.

73 de Bill N2BC

-----  
Message-Id: <3.0.32.19980809180420.0088bb00@mail.wt.net>  
Date: Sun, 09 Aug 1998 18:08:32 -0500  
To: Old Tube Radios <boatanchors@theporch.com>  
From: "Benjamin D. Hall" <kd5byb@WT.NET>  
Subject: Re: RBL ramblings  
Cc: boatanchors@theporch.com  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

I've also got an RBL-3 here made by Wells Gardner. It is a very interesting rig!

For one thing, it can definately win the prize for largest nomenclature tags - mine has no less than three nomenclature tags, the first saying it is an RBL-3, made by Wells Gardner, Serial 227, Contract Nxss-21446 among other things. The second indicates it is part of some receiving set when paired with a certain base, the third indicating it was "Accepted by Navy Sept 30, 1943", but there is no writing in the "Put Into Service" area.

Probably a good 10 square inches of nomenclature tagging.

>My cans appear to be aluminum, not a cheap commodity back then.

My cans appear to be some sort of non-magnetic steel, coated with cadmium plate according to the manual I've got. I know the coating is cadmium as it has a patina I've seen on cad plated parts, and shows evidence of a copper "precoating" in areas that are scratched. If I remember my plating

correctly, one needs to plate copper to steel before plating with cadmium. But why the heck they'd plate stainless is beyond me - steel is cad plated for corrosion resistance, and stainless (or CRES as the Navy calls it) is corrosion resistant already. Interesting!

I don't believe you can cad plate aluminum, but I may be wrong... (BA metalurgists, what say ye?)

>Yes, quality is good, and performance surprizingly good.

Build quality on my Wells unit is fantastic! Very heavy duty parts throughout, and very well made. Mine doesn't hear too well at the moment - I had started giving it a good "look through" with the meter and the soldering iron, but it got bumped off the desk when another project came in.

Mine has many of the micas already replaced - I'll have to check all of them, and look at the resistor values when I get mine back onto the bench.

>My contract date to the Navy was 1/11/43, there is "M.F.P. May 1945"  
>stamped inside.

Interesting - even though mine was made after yours, mine was MFP'ed in April of 1945...

Mine has one other trait I'd love information on - it is stenciled two places with "LX-35." I believe that this may be the identification of the ship she served on, but searching the Navy webpages and resources hasn't turned up anything. One Navy person I e-mailed suggested I look in some set of Navy History Books, but alas, I don't know anyone with a set...

73,  
Ben  
---

Benjamin D. Hall, KD5BYB, Engine and radio collector / operator.  
Located in Houston, Texas, USA.  
e-mail: kd5byb@WT.net, web: \*\*\*down for refurbishment\*\*\*  
"An ye harm none, do what ye will."

-----  
Date: Sun, 9 Aug 1998 19:30:23 -0500 (CDT)  
From: Bill Hawkins <bill@iaxs.net>  
Message-Id: <199808100030.TAA11918@citrus.iaxs.net>  
To: Old Tube Radios <boatanchors@theporch.com>  
Subject: Seen at St. Cloud, MN

Nice little 'fest about 90 minutes from home. Inside and tailgate areas.  
Seen outside:



SB401/SB303 pair \$350  
Ranger II asking \$250 (that's what they get in trade sheets)  
HW101 \$110  
51S1 \$500, with 3 wrong knobs (what happens to the knobs?)  
SB221 \$595  
R1051D \$450

Inside were all kinds of things. One guy had bench grinders. An unsmiling woman stood behind what might have been left in the basement by a departing (or departed) husband. I didn't ask.

Picked up a piece of Collins gear for \$2 (who said Collins prices were high?). Oh, all right, it was an aircraft DME indicator with no cover, but I'm a sucker for things with gears. But the basement is full and that's all that fit. I looked around before I left for something to sell, but couldn't part with any of it.

Left at 10:30 with all of the pricey stuff still there. Guess there were no rich foreign tourists passing through.

Regards,  
Bill Hawkins

-----  
Message-Id: <3.0.32.19980809200031.006a0930@pop.mindspring.com>  
Date: Sun, 09 Aug 1998 20:31:34 -0400  
To: Old Tube Radios <boatanchors@theporch.com>  
From: Jim Lockwood <jmlckwd@mindspring.com>  
Subject: Re: 75A-4 humble pie - birdies gone  
Mime-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"

At 06:58 PM 8/9/98 -0400, n2bc@ibm.net wrote:

>Learned something today - don't run an A-4 with the side panel removed. All  
>my birdie chasing went away when I reinstalled the left side (RF & mixers)  
>panel.

>

>Yep, the 4th and 5th harmonics of the BFO are keeping to themselves and the  
>2nd mixer is only mixing the PTO and the appropriate RF.

>

>Repeat after me: reinstall the covers, reinstall the covers, reinstall the  
>covers.

Dim, distant memories return.....

The Heath HW-101 has an aluminum shield over a gaggle of bandswitched coils and there are clear instructions to have the shield in place when doing the

alignment.

Pooh.... covers and shields are for sissies. I can align this little toy radio first and then install the shield.

Wrong-o, boatanchor breath.

Yep, the lowly HW-101 has to have that little shield in place or it can not be aligned properly. Without it, it was unstable, and touchy and just a royal pain to adjust. Ask me how I know.

Bill's hard learned lesson with the 75A4 served to remind me of my own hard-learned lesson with a much lesser radio a long time ago. A lesson worth remembering

73,

Jim - K4CCF

(formerly KM6NK, WA4K00, WN4K00)  
Looking for original QSL cards from K4CCF

<http://www.mindspring.com/~johnmb/radiorm1.htm>

-----  
Message-ID: <01BDC3D6.529731E0@esieb.gmsiworld.com>  
From: Ed Sieb <esieb@gmsiworld.com>  
To: Old Tube Radios <boatanchors@theporch.com>  
Cc: "'Steve Ickes WB3HUZ'" <amradio@thebizlink.com>  
Subject: RE: ULTRA AMPLITUDE MODULATION REF'S  
Date: Sun, 9 Aug 1998 20:43:08 -0400  
MIME-Version: 1.0  
Content-Type: text/plain; charset="us-ascii"  
Content-Transfer-Encoding: 7bit

I have a similar collection of articles. I'll check them and see how my collection compares with yours and let you know what I have. I may have what you're looking for, and vice versa.

73, de Ed, VA3ES

-----Original Message-----  
From: JOHN SEHRING [SMTP:JOHN\_SEHRING.parti@ecunet.org]  
Sent: Tuesday, August 04, 1998 1:14 PM  
To: Old Tube Radios

Subject: ULTRA AMPLITUDE MODULATION REF'S

I've got a collection of stuff on the general topic of "Ultra" Amplitude Modulation thru use of high-level negative peak clipping using diodes on the modulation transformer:

CQ: 1/59 "Negative Cycle Loading" Shaklee, 6/59 "A Positive peak expander or more modulation for everyone" Compton, 6/62 "The rebirth of the negative peak modulation indicator" Wanamaker, 11/64 "Ultra modulation for the a.m. transmitter" Glanzer, 7-8/68 "Modulation unlimited, parts 1 & 2" Doughty.

(I am missing a CQ article by Don Hoisington 3/70, p. 58, don't know the title, is this on topic does anyone know?)

QST:

1. 6/47 "Overmodulation splatter suppression" Villard
2. 10/56 "The ultra modulation system" Allen. The only commercial implementation of such a device was by the Ultra Modulation Company of Red Bank, NJ, with which the author, Ollie Allen, W4FHF was involved. I have not found an original source of their ad, which is reproduced in the first "Source unknown" reference below.

Electronics magazine:

1/47 "Overmodulation without sideband splatter" Villard (I don't have)

Source unknown: "How to really boost sideband power - ultra modulation for the Apache, DX-100, Valiant, 32V, Viking, etc. - Part I" by John Morehead. (I don't have Part II)

Source unknown: "Help reduce splatter" by John Morehead

Source unknown: "The AM P/X", No. 54 by W6NRC (I don't have)

WWW: "A zener diode negative peak limiter" by Steve Ickes (from <http://www.thebizlink.com/am/tech/htm/zenlim.htm> ; Fig. 3 of the article is inexplicably at <http://www.thebizlink.com/am/tech/htm/3diode.htm> )

I'm told the subject first appeared in the 1936 ARRL Handbook credited to W8AGW. Is this true? If so, I'd sure like to see a copy of it.

Does anyone know of any more articles on the subject and/or any follow-up articles or letters on the ones listed?

(Thanks to modern (gulp!) ss (yikes, wash my mouth out with soap!) devices, it's very much easier to do this these days.)

On the "I don't have"'s, would anyone be able to supply me with a copy?

I intend to make copies of the whole collection available to list members if there's interest.

-John Sehring (10:02 am Tue, Aug 4, 1998 at Custer, SD USA) ucc wb2eqg

-----

End of BOATANCHORS Digest 2162

\*\*\*\*\*